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OGRP Ref.:0002202USU/2435

Examiner Ponomarenko

Art Unit 2834

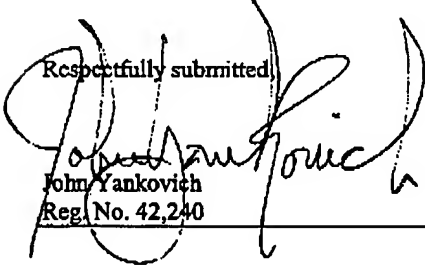
Serial No. 10/700,076

Dear Examiner Ponomarenko:

I am transmitting herewith a proposed amendment for the above-noted application. We are proposing amending claims 18 and 50 (based on your suggestions), and we are further proposing amending several dependent claims (necessitated by the amendment of claims 18 and 50).

Please consider the proposed amendment and call me at your earliest convenience.

Respectfully submitted,


John Yankovich
Reg. No. 42,240

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INFORMAL COMMUNICATION

U.S. Patent Application No. 10/700,076 for
Apparatus For Providing High Quality Power
OGRP Ref.: 0002202USU/2435

Proposed Amendment – 7 JUL 2006

1 – 17. (canceled)

18. (currently amended) A system, comprising:

a power feed that distributes a high DC voltage in a building, wherein said power feed has a plurality of sources for said high DC voltage, and wherein said high DC voltage is in a range of about 300 to 600 VDC;
a converter, coupled to said power feed, that receives said high DC voltage, and scales said high DC voltage to a low DC voltage; and
a controller that controls a firing rate of said converter so that said low DC voltage is in a range of about 23 to 48 VDC.

19. (previously presented) The system of claim 18,

wherein said power feed is a first power feed, said high DC voltage is a first high DC voltage, said converter is a first converter, said low DC voltage is a first low DC voltage, and said controller is a first controller, and

wherein said system further comprises:

a second power feed that distributes a second high DC voltage in said building, wherein said second high DC voltage is in a range of about 300 to 600 VDC;
a second converter, coupled to said second power feed, that receives said second high DC voltage, and scales said second high DC voltage to a second low DC voltage;
a second controller that controls a firing rate of said second converter so that said second low DC voltage is in a range of about 23 to 48 VDC; and
a bridge that couples said first and second low DC voltages to provide a low DC voltage feed.

INFORMAL COMMUNICATION

U.S. Patent Application No. 10/700,076 for
Apparatus For Providing High Quality Power
OGRP Ref.: 0002202USU/2435

Proposed Amendment – 7 JUL 2006

20. (previously presented) The system of claim 19, wherein said low DC voltage feed provides power at a level that is about equal to a sum of (a) power provided by said first converter and (b) power provided by said second converter.

21. (currently amended) The system of claim 18, ~~further comprising a source for said high DC voltage, wherein said source~~ wherein at least one of said plurality of sources includes a rectifier that receives an AC voltage and converts said AC voltage to said high DC voltage.

22. (currently amended) The system of claim 18, ~~further comprising a source for said high DC voltage, wherein said source~~ wherein at least one of said plurality of sources includes a flywheel that stores energy, and that discharges said energy to provide said high DC voltage.

23. (previously presented) The system of claim 21, wherein said AC voltage is in a range of about 208 to 480 VAC.

24. (canceled)

25. (currently amended) The system of claim 18,
wherein said plurality of sources comprises a first high DC voltage source and a second high DC voltage source, and
wherein said system further comprises a bridge that couples an output from a said first high DC voltage source and an output from a said second high DC voltage to provide said high DC voltage to said power feed.

26. (previously presented) A system, comprising:
a converter that receives a high DC voltage, and scales said high DC voltage to a low DC voltage;

INFORMAL COMMUNICATION

U.S. Patent Application No. 10/700,076 for
Apparatus For Providing High Quality Power
OGRP Ref.: 0002202USU/2435

Proposed Amendment – 7 JUL 2006

a controller that controls a firing rate of said converter so that said low DC voltage is less than or equal to about 1/10 of said high DC voltage; and

a source that provides said high DC voltage, wherein said source is selected from the group consisting of a rectifier, a flywheel, a fuel cell, a battery, an uninterruptible power supply and a generator.

27. (canceled)

28. (canceled)

29. (previously presented) The system of claim 18, wherein said converter provides greater than or equal to about 30kW of power.

30. (previously presented) A system, comprising:

a first power feed that distributes a first high DC voltage in a building;

a second power feed that distributes a second high DC voltage in said building;

wherein said first and second high DC voltages are in a range of about 300 to 600 VDC;

a first converter, coupled to said first power feed, that receives said first high DC voltage, and scales said first high DC voltage to a first low DC voltage in a range of about 23 to 48 VDC;

a second converter, coupled to said second power feed, that receives said second high DC voltage, and scales said second high DC voltage to a second low DC voltage in a range of about 23 to 48 VDC; and

a bridge that couples said first and second low DC voltages to provide a low DC voltage feed.

31. (canceled)

INFORMAL COMMUNICATION

U.S. Patent Application No. 10/700,076 for
Apparatus For Providing High Quality Power
OGRP Ref.: 0002202USU/2435

Proposed Amendment – 7 JUL 2006

32. (previously presented) The system of claim 30, wherein said bridge is a first bridge, and wherein said system further comprises:

a second bridge that couples an output from a first high DC voltage source and an output from a second high DC voltage source to provide said first high DC voltage to said first power feed; and

a third bridge that couples an output from a third high DC voltage source and an output from a fourth high DC voltage source to provide said second high DC voltage to said second power feed.

33. (previously presented) A system, comprising:

a first converter that receives a first high DC voltage, and scales said first high DC voltage to a first low DC voltage;

a second converter that receives a second high DC voltage, and scales said second high DC voltage to a second low DC voltage;

a bridge that couples said first and second low DC voltages to provide a low DC voltage feed; and

a source for said first high DC voltage, wherein said source includes a device selected from the group consisting of a rectifier, a flywheel, a fuel cell, a battery, an uninterruptible power supply, and a generator.

34. (previously presented) The system of claim 30, further comprising a rectifier that converts an AC voltage to said first high DC voltage.

35. (canceled)

INFORMAL COMMUNICATION

U.S. Patent Application No. 10/700,076 for
Apparatus For Providing High Quality Power
OGRP Ref.: 0002202USU/2435

Proposed Amendment – 7 JUL 2006

36. (previously presented) The system of claim 30, further comprising a source for said first high DC voltage, wherein said source includes a flywheel that stores energy, and that discharges said energy to provide said first high DC voltage.

37. (previously presented) The system of claim 34, wherein said AC voltage is in a range of about 208 to 480 VAC.

38. (canceled)

39. (canceled)

40. (previously presented) The system of claim 30, wherein said first converter provides power of greater than or equal to about 30kW.

41. (previously presented) The system of claim 30, wherein said low DC voltage feed provides power about equal to a sum of (a) power provided by said first converter and (b) power provided by said second converter.

42. (previously presented) The system of claim 30, wherein said low DC voltage feed is routed to a device selected from the group consisting of a computer and a telecommunication apparatus.

43. (previously presented) The system of claim 42, wherein said device includes a power supply that is not a switching mode power supply.

44 – 46. (canceled)

47. (previously presented) A facility comprising:

INFORMAL COMMUNICATION

U.S. Patent Application No. 10/700,076 for
Apparatus For Providing High Quality Power
OGRP Ref.: 0002202USU/2435

Proposed Amendment – 7 JUL 2006

a first bridge that couples an output from a first high DC voltage source and an output from a second high DC voltage source to provide a first high DC voltage in a range of about 300 to 600 VDC;

a first power feed that distributes said first high DC voltage in a building;

a second bridge that couples an output from a third high DC voltage source and an output from a fourth high DC voltage source to provide a second high DC voltage in a range of about 300 to 600 VDC;

a second power feed that distributes said second high DC voltage in said building;

a first converter, coupled to said first power feed, that receives said first high DC voltage, and scales said first high DC voltage to a first low DC voltage;

a first controller that controls a firing rate of said first converter so that said first low DC voltage is in a range of about 23 to 48 VDC;

a second controller that controls a firing rate of said second converter so that said second low DC voltage is in a range of about 23 to 48 VDC; and

a third bridge that couples said first and second low DC voltages to provide a low DC voltage feed.

48. (previously presented) The facility of claim 47, further comprising a device that receives said low DC voltage feed, wherein said device is selected from the group consisting of a computer and a telecommunication apparatus.

49. (previously presented) The facility of claim 47, further comprising a device that receives said low DC voltage feed, wherein said device includes a power supply that is not a switching mode power supply.

50. (currently amended) A system comprising:

INFORMAL COMMUNICATION

U.S. Patent Application No. 10/700,076 for
Apparatus For Providing High Quality Power
OGRP Ref.: 0002202USU/2435

Proposed Amendment – 7 JUL 2006

a power feed that distributes a high DC voltage in a building, wherein said power feed has a plurality of sources for said high DC voltage, and wherein said high DC voltage is in a range of about 300 to 600 VDC; and

a converter, coupled to said power feed at said second point, that receives said high DC voltage and scales said high DC voltage to a low DC voltage in a range of about 23 to 48 VDC.

51. (currently amended) The system of claim 50, ~~further comprising a source that provides said high DC voltage, wherein said source~~ wherein at least one of said plurality of sources is located outside of said building.

52. (currently amended) The system of claim 50, ~~further comprising a source that provides said high DC voltage, wherein said source~~ wherein at least one of said plurality of sources is selected from the group consisting of a rectifier, a flywheel, a fuel cell, a battery, an uninterruptible power supply and a generator.

53. (currently amended) The system of claim 50, ~~further comprising a source that provides said high DC voltage, wherein said source~~ wherein at least one of said plurality of sources includes a flywheel that stores energy, and that discharges said energy to provide said first high DC voltage.

54. (previously presented) The system of claim 50,
wherein said power feed is a first power feed, said high DC voltage is a first high DC voltage,
said converter is a first converter, and said low DC voltage is a first low DC voltage, and
wherein said system further comprises:

a second power feed that distributes a second high DC voltage in said building;

a second converter, coupled to said second power feed, that receives said second high DC voltage, and scales said second high DC voltage to a second low DC voltage;
and

INFORMAL COMMUNICATION

U.S. Patent Application No. 10/700,076 for
Apparatus For Providing High Quality Power
OGRP Ref.: 0002202USU/2435

Proposed Amendment – 7 JUL 2006

a bridge that couples said first and second low DC voltages to provide a low DC voltage
feed.

55. (previously presented) The system of claim 54, wherein said low DC voltage feed is routed to
a device selected from the group consisting of a computer and a telecommunication apparatus.
